

In The Specification:

Please amend paragraph [0015] as follows:

When the *work item* is successfully completed, the activity state changes from *running* state 32 to a *completed* state 33 and the activity instance is destroyed 39. If the participant decides not to complete the *work item*, the *participant* can cancel it, in which case the state changes from *running* 32 back to *notRunning* 31. The model of Fig. 3 illustrates additional states, *suspended* 34, *aborted* ~~36~~ ³⁵, and *terminated* 35 to cover situations such as setting a *work item* aside temporarily to do another *work item*, or terminating a *work item* in an abnormal way so that the *activities* that would normally follow it are not scheduled.

Please amend paragraph [0051] as follows:

In general, an *activity* may only be enacted when its *permitted rule* is true. An *activity* is scheduled to be enacted whenever its *schedule rule* is true and it is not already *open*. The *expected rule* informs the activity scheduler 56 ~~60~~ to assume that the *activity* will be enacted in the future, and therefore to plan ahead for its resources, auto-routing, etc. An *activity* may only read data that is listed in its *input specification* and may only write data that is listed in its *output specification*. The *permitted rule*, the *schedule rule*, and the *expected rule* may only refer to data in the input specification. When an activity reaches the state *completed*, it also has a *completion-state*. Each time that any workflow-relevant data changes, including data in job records, the data-triggered workflow engine checks to see which activities' rules are affected by that data and updates the list of scheduled activities accordingly.

Please amend paragraph [0064] as follows:

The *auto-routing specification 56* according to an embodiment of the present invention comprises a rule that lists which input data items to copy, and where to copy them, prior to commencing the *activity*. The auto-routing destination may be computed based on data in the job record. An embodiment of the auto-routing specification may comprises “mandatory” auto-routing and/or “preferred” auto-routing.

Please amend paragraph [0069] as follows:

- An activity is not ~~made~~ listed in the work item pool as ready to execute until its *schedule rule* evaluates to *true* and its *mandatory auto-routing* test evaluates to *true*.

Please amend paragraph [0072] as follows:

- The auto-routing server ~~module~~ 65 schedules and supervises the data movements based on available storage space, network traffic, activity deadlines, and any other relevant information.

Please amend paragraph [0076] as follows:

I(B)(xi). Archiving Specification: In some instances, it is desirable that data produced, modified or overwritten by an activity is copied to “a safe place” once the activity instance has been completed. An *archiving specification 57* according to an embodiment of the present invention identifies which data should be copied, to where the data should be copied, and whether the copy should be made as part of the activity instance’s transaction or as a separate, subsequent step. This distinction is important for fault tolerance in certain situations.

Please amend paragraph [0102] as follows:

The following describes a state-based schedule rules specification **58** according to an embodiment of the present invention for defining *schedule rules* that make a process behave as if it were state-based whenever there are no unexpected activity enactments, but also responds sensibly in the presence of such unexpected enactments, such as rework. The following predicates help describe the schedule rules.